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WHAT IS CLAIMED IS:

1	1. A method comprising:
2	accepting user input specifying a geometrical arrangement of
3	two or more buttons on one or more displayed pages;
4	accepting user input labeling at least two of the two or more
5	buttons on the one or more displayed pages;
6	accepting user input defining at least one interaction between
7	the labeled at least two buttons;
8	accepting user input specifying at least one constraint cost
9	for the defined at least one interaction; and
10	assigning the labels of the at least two buttons among the two
11	or more buttons on one or more displayed pages such that
12	the at least one constraint cost is substantially
13	optimized.

- 2. The method of Claim 1, wherein said accepting user input specifying a geometrical arrangement of two or more buttons on one or more displayed pages further comprises:
 - accepting user input specifying one or more sizes of the one or more displayed pages.
- 3. The method of Claim 1, wherein said accepting user input specifying a geometrical arrangement of two or more buttons on one or more displayed pages further comprises:
 - accepting user input specifying two or more locations of the two or more buttons on the one or more displayed pages.
- 1 4. The method of Claim 1, wherein said accepting user input
 2 labeling at least two of the two or more buttons on the one or more
 3 displayed pages further comprises:
- 4 accepting user input labeling at least two buttons on a first displayed page presented to a user.
 - 5. The method of Claim 1, wherein said accepting user input labeling at least two of the two or more buttons on the one or more displayed pages further comprises:
- 4 accepting user input labeling at least one button on a first 5 displayed page presented to a user; and

6 accepting user input labeling at least one button on a second 7 displayed page presented to the user.

6. The method of Claim 1, wherein said accepting user input defining at least one interaction between the labeled at least two buttons further comprises:

accepting user input identifying at least one relationship between the labeled at least two buttons, said relationship selected from a relationship group including a Fitts'-movement interaction, a Euclidean-distance interaction, a City-Block-distance interaction, an X-directed interaction, and a Y-directed interaction.

7. The method of Claim 1, wherein said accepting user input specifying at least one constraint cost for the defined at least one interaction further comprises:

accepting user input specifying at least one constraint cost for the defined at least one interaction, said at least one constraint cost selected from a constraint-cost group including a global-difficulty cost, a pages-to-close-buttons cost, a pages-to-fixed buttons cost, a path-difficulty cost, a pages-to-far buttons cost, and a parent-to-child variability cost.

- 8. The method of Claim 1, wherein said accepting user input specifying at least one constraint cost for the defined at least one interaction further comprises:
- accepting user input specifying at least one weighting factor
 to be associated with the specified at least one
 constraint cost.
 - 9. The method of Claim 1, wherein said assigning the labels of the labeled at least two buttons among the two or more buttons on one or more displayed pages such that the at least one constraint cost is substantially optimized further comprises:
 - assigning at least one label of the labeled at least two buttons among the two or more buttons on the one or more displayed pages on the basis of an optimization procedure selected from an optimization-procedure group including

9 a gradient descent substantial optimization procedure and 10 a simulated annealing substantial optimization procedure.

10. A system comprising:

circuitry for accepting user input specifying a geometrical arrangement of two or more buttons on one or more displayed pages, said circuitry selected from an electrical-circuitry group including electrical circuitry having at least one discrete electrical circuit, electrical circuitry having at least one integrated circuit, electrical circuitry having at least one application specific integrated circuit, electrical circuitry forming a general purpose computing device configured by a computer program, electrical circuitry forming a memory device, and electrical circuitry forming a communications device;

circuitry for accepting user input labeling at least two of the two or more buttons on the one or more displayed pages, said circuitry selected from an electrical-circuitry group including electrical circuitry having at least one discrete electrical circuit, electrical circuitry having at least one integrated circuit, electrical circuitry having at least one application specific integrated circuit, electrical circuitry forming a general purpose computing device configured by a computer program, electrical circuitry forming a memory device, and electrical circuitry forming a communications device;

circuitry for accepting user input defining at least one interaction between the labeled at least two buttons, said circuitry selected from an electrical-circuitry group including electrical circuitry having at least one discrete electrical circuit, electrical circuitry having at least one integrated circuit, electrical circuitry having at least one application specific integrated circuit, electrical circuitry forming a general purpose computing device configured by a computer program, electrical circuitry forming a memory device, and electrical circuitry forming a communications device;

circuitry for accepting user input specifying at least one constraint cost for the defined at least one interaction,

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said circuitry selected from an electrical-circuitry group including electrical circuitry having at least one discrete electrical circuit, electrical circuitry having at least one integrated circuit, electrical circuitry having at least one application specific integrated circuit, electrical circuitry forming a general purpose computing device configured by a computer program, electrical circuitry forming a memory device, and electrical circuitry forming a communications device; and circuitry for assigning the labels of the at least two buttons among the two or more buttons on one or more displayed pages such that the at least one constraint cost is substantially optimized, said circuitry selected from an electrical-circuitry group including electrical circuitry having at least one discrete electrical circuit, electrical circuitry having at least one integrated circuit, electrical circuitry having at least one application specific integrated circuit, electrical circuitry forming a general purpose computing device configured by a computer program, electrical circuitry forming a memory device, and electrical circuitry forming a communications device.

11. The system of Claim 10, wherein said circuitry for accepting user input specifying a geometrical arrangement of two or more buttons on one or more displayed pages further comprises:

circuitry for accepting user input specifying one or more sizes of the one or more displayed pages.

12. The system of Claim 10, wherein said circuitry for accepting user input specifying a geometrical arrangement of two or more buttons on one or more displayed pages further comprises:

circuitry for accepting user input specifying two or more locations of the two or more buttons on the one or more displayed pages.

13. The system of Claim 10, wherein said circuitry for accepting user input labeling at least two of the two or more buttons on the one or more displayed pages further comprises:

circuitry for accepting user input labeling at least two buttons on a first displayed page presented to a user.

14. The system of Claim 10, wherein said circuitry for accepting user input labeling at least two of the two or more buttons on the one or more displayed pages further comprises:

circuitry for accepting user input labeling at least one button on a first displayed page presented to a user; and circuitry for accepting user input labeling at least one button on a second displayed page presented to the user.

15. The system of Claim 10, wherein said circuitry for accepting user input defining at least one interaction between the labeled at least two buttons further comprises:

circuitry for accepting user input identifying at least one relationship between the labeled at least two buttons, said relationship selected from a relationship group including a Fitts'-movement interaction, a Euclidean-distance interaction, a City-Block-distance interaction, an X-directed interaction, and a Y-directed interaction.

16. The system of Claim 10, wherein said circuitry for accepting user input specifying at least one constraint cost for the defined at least one interaction further comprises:

circuitry for accepting user input specifying at least one constraint cost for the defined at least one interaction, said at least one constraint cost selected from a constraint-cost group including a global-difficulty cost, a pages-to-close-buttons cost, a pages-to-fixed buttons cost, a path-difficulty cost, a pages-to-far buttons cost, and a parent-to-child variability cost.

17.	The	e syste	em of	Claim	10,	where	ein .	said	circuit	ry fo	or	
accepting	user	input	spec	ifying	at	least	one	cons	traint	cost	for	the
defined a	t leas	st one	inte	raction	ı fu	irther	com	prise	s:			

circuitry for accepting user input specifying at least one weighting factor to be associated with the specified at least one constraint cost.

18. The system of Claim 10, wherein said circuitry for assigning the labels of the labeled at least two buttons among the two or more buttons on one or more displayed pages such that the at least one constraint cost is substantially optimized further comprises:

circuitry for assigning at least one label of the labeled at least two buttons among the two or more buttons on the one or more displayed pages on the basis of an optimization procedure selected from an optimization-procedure group including a gradient descent substantial optimization procedure and a simulated annealing substantial optimization procedure.

- 1 19. A system comprising:
- 2 means for accepting user input specifying a geometrical
- 3 arrangement of two or more buttons on one or more displayed pages;
- 4 means for accepting user input labeling at least two of
- 5 the two or more buttons on the one or more displayed pages;
- 6 means for accepting user input defining at least one
- 7 interaction between the labeled at least two buttons;
- 8 means for accepting user input specifying at least one
- 9 constraint cost for the defined at least one interaction; and
- 10 means for assigning the labels of the at least two
- 11 buttons among the two or more buttons on one or more displayed pages
- 12 such that the at least one constraint cost is substantially
- 13 optimized.
 - 1 20. The system of Claim 19, wherein said means for accepting
- 2 user input specifying a geometrical arrangement of two or more
- 3 buttons on one or more displayed pages further comprises:
- 4 means for accepting user input specifying one or more
- 5 sizes of the one or more displayed pages.
- 1 21. The system of Claim 19, wherein said means for accepting
- 2 user input specifying a geometrical arrangement of two or more
- 3 buttons on one or more displayed pages further comprises:
- 4 means for accepting user input specifying two or more
- 5 locations of the two or more buttons on the one or more displayed
- 6 pages.
- 1 22. The system of Claim 19, wherein said means for accepting
- 2 user input labeling at least two of the two or more buttons on the
- 3 one or more displayed pages further comprises:
- 4 means for accepting user input labeling at least two
- 5 buttons on a first displayed page presented to a user.

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- 1 The system of Claim 19, wherein said means for accepting 2 user input labeling at least two of the two or more buttons on the 3 one or more displayed pages further comprises:
- 4 means for accepting user input labeling at least one 5 button on a first displayed page presented to a user; and
- 6
- means for accepting user input labeling at least one 7 button on a second displayed page presented to the user.
- 1 24. The system of Claim 19, wherein said means for accepting 2 user input defining at least one interaction between the labeled at 3 least two buttons further comprises:
 - means for accepting user input identifying at least one relationship between the labeled at least two buttons, relationship selected from a relationship group including Fitts'-movement interaction, a Euclidean-distance interaction, City-Block-distance interaction, an X-directed interaction, and a Y-directed interaction.
- 1 25. The system of Claim 19, wherein said means for accepting 2 user input specifying at least one constraint cost for the defined at 3 least one interaction further comprises:
- 4 means for accepting user input specifying at least one 5 constraint cost for the defined at least one interaction, said at 6 least one constraint cost selected from a constraint-cost group 7 including a global-difficulty cost, a pages-to-close-buttons cost, a 8 pages-to-fixed buttons cost, a path-difficulty cost, a pages-to-far buttons cost, and a parent-to-child variability cost.
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- 26. The system of Claim 19, wherein said means for accepting user input specifying at least one constraint cost for the defined at least one interaction further comprises:
- means for accepting user input specifying at least one weighting factor to be associated with the specified at least one constraint cost.
- The system of Claim 19, wherein said means for assigning the labels of the labeled at least two buttons among the two or more buttons on one or more displayed pages such that the at least one constraint cost is substantially optimized further comprises:
 - means for assigning at least one label of the labeled at least two buttons among the two or more buttons on the one or more displayed pages on the basis of an optimization procedure selected from an optimization-procedure group including a gradient descent substantial optimization procedure and a simulated annealing substantial optimization procedure.